

ABSTRACT

The present invention provides a DNA fragment or promoter for expressing a gene of interest light-repressibly or specifically in the dark.

5 A light-repressible promoter was obtained from the 5' upstream region of a plant gene expressed light-repressibly or specifically in the dark, and the function of said promoter was extensively analyzed to reveal a cis-element sequence and a core sequence involved in light-repressible expression. An expression cassette comprising a DNA fragment carrying each of these sequences upstream of a gene of interest can be constructed and transfected into a plant cell or a plant to provide a plant cell or a plant that expresses the gene of interest light-repressibly or
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15 specifically in the dark.